

Subject index 1975-1981

APPLICATION DEVELOPMENT

- A program generator Hagamen, 14, 2, 102
- User controlled DB/DC system Heyne, 16, 4, 344
- The management of software engineering
 - I Principles of software engineering Mills, 19, 4, 414
 - II Software engineering program O'Neill, 19, 4, 421
 - III Software design practices Linger, 19, 4, 432
 - IV Software development practices Dyer, 19, 4, 451
 - V Software engineering management practices Quinnan, 19, 4, 466
- Application development system (PCS) Mishelevich, 19, 4, 478
- Modular Application Customizing System Gordon, 19, 4, 521

APPLICATIONS

- User-oriented data-base retrieval system Jones, 16, 1, 4
- Input-output econometric model Sarma, 16, 4, 398
- Solving the installation scheduling problem Chen, 17, 1, 82
- Experiments in computer-aided graphic expression Musgrave, 17, 3, 241
- Mass storage archiving Gravina, 17, 4, 344
- Software systems for physical planning Smedley, 17, 4, 359
- Computer-assisted office work Gruhn, 18, 3, 432
- Automatic programming for energy management Shah, 18, 3, 457
- Page makeup of text with graphics Shepherd, 19, 3, 345
- User-definable software for air quality monitoring Halpern, 20, 1, 86

CAPACITY PLANNING

- Performance model of MVS Chiu, 17, 4, 444
- Overview of the capacity planning process Bronner, 19, 1, 4
- Capacity planning methodology Cooper, 19, 1, 28
- System capacity and performance evaluation Schiller, 19, 1, 46
- Predicting performance of CICS/VS systems Seaman, 19, 1, 68
- Role of detailed simulation in capacity planning Nguyen, 19, 1, 81
- Processor, I/O path, and DASD configuration capacity Major, 20, 1, 104

COMMUNICATION SYSTEMS MANAGEMENT

- Enhanced problem determination capability Ford, 17, 3, 276
- Centralized communications network management Weingarten, 18, 4, 184
- Sidestream approach for managing communications Leach, 19, 1, 120
- Systems management Bird, 19, 1, 140

COMPUTER SYSTEMS

- Overview of Supermarket and Retail Store Systems McEnroe, 14, 1, 3
- Supermarket System performance studies Metz, 14, 1, 46
- Retail Store System design and performance Berk, 14, 1, 64
- Reliability, availability, serviceability for store systems Hippert, 14, 1, 81
- The IBM 5100 and Research Device Coupler Cole, 16, 1, 41

DATA BASES/DATA COMMUNICATIONS

- General audit trail requirements Bjork, 14, 3, 229
- Peterlee Relational Test Vehicle Todd, 15, 4, 285
- User-oriented data-base retrieval system Jones, 16, 1, 4
- Information management system IMS/VS McGee, 16, 2, 84
- High-performance DB/DC system (ACP) Siwec, 16, 2, 169
- Data structures and accessing in data base systems Senko, 16, 3, 208
- CICS/VS and its role in SNA Eade, 16, 3, 258
- Automated logical data base design Raver, 16, 3, 287
- Query-by-Example: a data base language Zloof, 16, 4, 324
- User controlled DB/DC system Heyne, 16, 4, 344
- Storage and access in relational data bases Blasgen, 16, 4, 363

Design of the 8100 DTMS
 Predicting performance of CICS/VS systems
 Data base security
 Relational data base primer
 System R: An architectural overview

Waters, 18, 4, 565
 Seaman, 19, 1, 68
 Wood, 19, 2, 229
 Sandberg, 20, 1, 23
 Blasgen, 20, 1, 41

DISTRIBUTED PROCESSING

Distributed real-time operating system (LABS/7)
 Distributed data processing
 Distributed information system study
 Operating system for distributed processing (DPPX)
 I/O facilities of DPPX
 Data management for DPPX
 Distributed processing: An assessment
 Logical distribution of applications and data
 Distributed processing communications support

Raimondi, 15, 1, 81
 Scherr, 17, 4, 324
 Ziegler, 18, 3, 374
 Kiely, 18, 4, 507
 Albrecht, 18, 4, 526
 Fitzgerald, 18, 4, 547
 Lorin, 18, 4, 502
 Baker, 19, 2, 171
 Harrison, 19, 2, 192

GRAPHICS

Experiments in computer-aided graphic expression
 Software systems for physical planning
 Interactive graphics today
 Software architecture for graphical interaction
 Architecture of 3277 Graphics Attachment
 Page makeup of text with graphics
 High-resolution computer graphics system
 APL approach to presentation graphics
 Graphic interactive application monitor
 Graphic representation of structured programs

Musgrave, 17, 3, 241
 Smedley, 17, 4, 359
 Burchi, 19, 3, 292
 Weller, 19, 3, 314
 McManigal, 19, 3, 331
 Shepherd, 19, 3, 345
 Handelmann, 19, 3, 356
 Niehoff, 19, 3, 367
 Bleher, 19, 3, 382
 Belady, 19, 4, 542

HUMAN FACTORS

Operator role in store systems
 Architectural design for program development

Antonelli, 14, 1, 35
 McCue, 17, 1, 4

LANGUAGES

Composite design facilities of programming languages
 APL emulator on System/370
 APL interpreter and system for small computers
 Query-by-Example: a data base language
 Method for time analysis of programs
 Extended Control Language of MPSX/370
 APL approach to presentation graphics

Myers, 15, 3, 212
 Hassitt, 15, 4, 358
 Alfonseca, 16, 1, 18
 Zloof, 16, 4, 324
 de Frietas, 17, 1, 26
 Slate, 17, 1, 64
 Niehoff, 19, 3, 367

MASS STORAGE SYSTEM

MVS archival storage and recovery program
 Mass storage archiving

Considine, 16, 4, 378
 Gravina, 17, 4, 344

MATHEMATICAL METHODS

Universal Product Code symbol
 Queuing theory for system design
 Input-output econometric model
 Extended Control Language of MPSX/370
 Solving the installation scheduling problem
 System for constructing linear programming models

Savir, 14, 1, 16
 Allen, 14, 2, 161
 Sarma, 16, 4, 398
 Slate, 17, 1, 64
 Chen, 17, 1, 82
 Katz, 19, 4, 505

OFFICE SYSTEMS

Office communications system
 Computer-assisted office work
 Electronic information interchange

Engel, 18, 3, 402
 Gruhn, 18, 3, 432
 DeSousa, 20, 1, 4

OPERATING SYSTEMS

DPPX

Operating system for distributed processing (DPPX)
I/O facilities of DPPX
Data management for DPPX
Distributed processing communications support

Kiely, 18, 4, 507
Albrecht, 18, 4, 526
Fitzgerald, 18, 4, 547
Harrison, 19, 2, 192

MVS

MVS archival storage and recovery program
Time-sharing display terminal session manager
Performance tuning in MVS
Performance model of MVS
MVS tuning approach

Considine, 16, 4, 378
McCrossin, 17, 3, 260
Beretvas, 17, 3, 290
Chiu, 17, 4, 444
Schardt, 19, 1, 102

VM/370

Performance measurement tools for VM/370
Penetrating an operating system
VM/370—study of multiplicity and usefulness
Changing virtual machine environment
VM/370 asymmetric multiprocessing
Communication between isolated virtual machines
Security measures in VM/370
Evolution of a virtual machine subsystem
Managing VM/CMS systems
State sampling of interactive VM/370 users

Callaway, 14, 2, 134
Attanasio, 15, 1, 102
Seawright, 18, 1, 4
MacKinnon, 18, 1, 18
Holley, 18, 1, 47
Jensen, 18, 1, 71
Attanasio, 18, 1, 93
Hendricks, 18, 1, 111
Doherty, 18, 1, 143
Tetzlaff, 18, 1, 164

GENERAL

Distributed real-time operating system (LABS/7)
High-performance DB/DC system (ACP)
Time-sharing display terminal session manager
Performance investigations with DOS-based model

Raimondi, 15, 1, 81
Siwec, 16, 2, 169
McCrossin, 17, 3, 260
Kraemer, 17, 4, 409

PERFORMANCE

Supermarket System performance studies
Retail Store System design and performance
Performance measurement tools for VM/370
Queuing theory for system design
Tuning a virtual storage system
System changes under uncontrolled workloads
Virtual memory performance analysis
Performance tuning in MVS
Performance investigations with DOS-based model
Performance model of MVS
Performance of complex communications systems
Capacity planning methodology
System capacity and performance evaluation
Predicting performance of CICS/VS systems
MVS tuning approach
System contention analysis

Metz, 14, 1, 46
Berk, 14, 1, 64
Callaway, 14, 2, 134
Allen, 14, 2, 161
Anderson, 14, 3, 246
Friedman, 14, 4, 340
Bard, 14, 4, 366
Beretvas, 17, 3, 290
Kraemer, 17, 4, 409
Chiu, 17, 4, 444
Stewart, 18, 3, 356
Cooper, 19, 1, 28
Schiller, 19, 1, 46
Seaman, 19, 1, 68
Schardt, 19, 1, 102
Yuval, 19, 2, 208

PROGRAMMER PRODUCTIVITY

Structured programming for virtual storage
HIPO and integrated program design
Top-down development using a design language
Design and code inspections
Composite design facilities of programming languages
Method of programming measurement
Architectural design for program development
Method for time analysis of programs
Measuring programming quality and productivity

Rogers, 14, 4, 385
Stay, 15, 2, 143
Van Leer, 15, 2, 155
Fagan, 15, 3, 182
Myers, 15, 3, 212
Walston, 16, 1, 54
McCue, 17, 1, 4
de Frietas, 17, 1, 26
Jones, 17, 1, 39

PROGRAMMING

- Structured programming for virtual storage
HIPO and integrated program design
Top-down development using a design language
Design and code inspections
Model of large program development
APL emulator on System/370
APL interpreter and system for small computers
Method of programming measurement
Method for time analysis of programs
Measuring programming quality and productivity
Extended Control Language of MPSX/370
Solving the installation scheduling problem
Data Stream Linkage Mechanism
Automatic programming for energy management
The management of software engineering
 I Principles of software engineering
 II Software engineering program
 III Software design practices
 IV Software development practices
 V Software engineering management practices
System for constructing linear programming models
Graphic representation of structured programs
- Rogers, 14, 4, 385
Stay, 15, 2, 143
Van Leer, 15, 2, 155
Fagan, 15, 3, 182
Belady, 15, 3, 225
Hassitt, 15, 4, 358
Alfonseca, 16, 1, 18
Walston, 16, 1, 54
de Frietas, 17, 1, 26
Jones, 17, 1, 39
Slate, 17, 1, 64
Chen, 17, 1, 82
Morrison, 17, 4, 383
Shah, 18, 3, 457
- Mills, 19, 4, 414
O'Neill, 19, 4, 421
Linger, 19, 4, 432
Dyer, 19, 4, 451
Quinnan, 19, 4, 466
Katz, 19, 4, 505
Belady, 19, 4, 542

SECURITY

- Hierarchical approach to computer system integrity
Access control mechanism for computer resources
Penetrating an operating system
Cryptographic key management scheme
Generation, distribution, and installation of
 cryptographic keys
Cryptography architecture for information security
Data processing spheres of control
Security measures in VM/370
Data base security
IPS cryptographic programs
- Donovan, 14, 2, 188
Gladney, 14, 3, 212
Attanasio, 15, 1, 102
Ehram, 17, 2, 106
- Matyas, 17, 2, 126
Lennon, 17, 2, 138
Davies, 17, 2, 179
Attanasio, 18, 1, 93
Wood, 19, 2, 229
Konheim, 19, 2, 253

SIMULATION

- Supermarket System performance studies
Productivity of computer-dependent workers
System changes under uncontrolled workloads
Model of large program development
Interactive modeling of computer systems
Input-output econometric model
Performance investigations with DOS-based model
Performance model of MVS
System capacity and performance evaluation
Predicting performance of CICS/VS systems
Role of detailed simulation in capacity planning
System for constructing linear programming models
- Metz, 14, 1, 46
Streeter, 14, 3, 292
Friedman, 14, 4, 340
Belady, 15, 3, 225
Reiser, 15, 4, 309
Sarma, 16, 4, 398
Kraemer, 17, 4, 409
Chiu, 17, 4, 444
Schiller, 19, 1, 46
Seaman, 19, 1, 68
Nguyen, 19, 1, 81
Katz, 19, 4, 505

SYSTEMS MANAGEMENT

- Access control mechanism for computer resources
Generalized audit trail requirements
The Power Profile
Computing center optimization
Productivity of computer-dependent workers
Computer installation accounting
- Gladney, 14, 3, 212
Bjork, 14, 3, 229
Laird, 14, 3, 264
Ghanem, 14, 3, 272
Streeter, 14, 3, 292
Gladney, 14, 4, 314

System changes under uncontrolled workloads	Friedman, 14, 4, 340
Testing in complex systems environment	Duke, 14, 4, 353
Service levels	Lewis, 15, 4, 328
Solving the installation scheduling problem	Chen, 17, 1, 82
Administrative control of computing service	Gladney, 17, 2, 151
Data processing spheres of control	Davies, 17, 2, 179
Enhanced problem determination capability	Ford, 17, 3, 276
Performance tuning in MVS	Beretvas, 17, 3, 290
Performance model of MVS	Chiu, 17, 4, 444
Managing VM/CMS systems	Doherty, 18, 1, 143
Centralized communications network management	Weingarten, 18, 4, 484
Overview of the capacity planning process	Bronner, 19, 1, 4
Capacity planning methodology	Cooper, 19, 1, 28
System capacity and performance evaluation	Schiller, 19, 1, 46
Predicting performance of CICS/VS systems	Seaman, 19, 1, 68
Role of detailed simulation in capacity planning	Nguyen, 19, 1, 81
MVS tuning approach	Schardt, 19, 1, 102
Sidestream approach for managing communication systems	Leach, 19, 1, 120
Systems management	Bird, 19, 1, 140
Processor, I/O path, and DASD configuration capacity	Major, 20, 1, 63

TELECOMMUNICATIONS

Systems Network Architecture overview	McFadyen, 15, 1, 4
Transmission subsystem in SNA	Cullum, 15, 1, 24
Role of Network Control Program in SNA	Hobgood, 15, 1, 39
Virtual Telecommunications Access Method	Albrecht, 15, 1, 53
Experiments in line quality monitoring	Bryant, 15, 2, 124
CICS/VS and its role in SNA	Eade, 16, 3, 258
Job networking	Crabtree, 17, 3, 206
Network job entry facility for JES2	Simpson, 17, 3, 221
Enhanced problem determination capability	Ford, 17, 3, 276
Computing and communications	Branscomb, 18, 2, 189
Introduction to network architecture and protocols	Green, 18, 2, 202
Public data networks	Halsey, 18, 2, 223
SNA and emerging international standards	Corr, 18, 2, 244
SNA multiple-system networking	Gray, 18, 2, 263
Routing and flow control in SNA	Ahuja, 18, 2, 298
Laboratory communication network	Moore, 18, 2, 315
Potential technology implications in the 1980s	Frazer, 18, 2, 263
Performance of complex communications systems	Stewart, 18, 3, 356
Distributed processing communications support	Harrison, 19, 2, 192